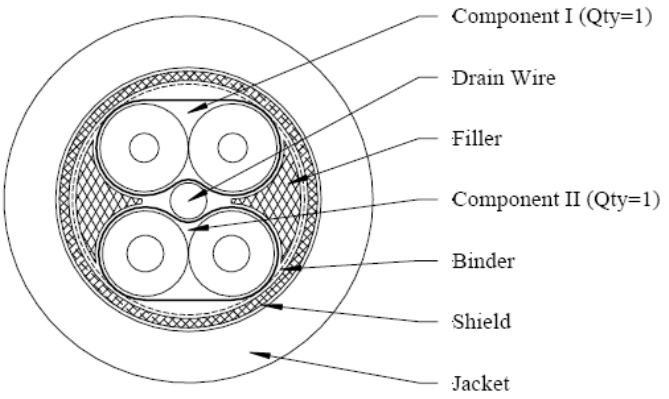
CsCAN Network Cable – Thick & Thin

HE200CAN100 Thin Cable
HE200CAN500 Thick Cable

1 Specifications – Thin Cable (HE200CBL100) – 100m Maximum Distance



Construction

Component I – 24 AWG Shielded Pair
Conductor: 24 AWG 19/36 Tin Plated Copper, 0.024 Inch Diameter
Insulation: 0.024 Inches of Foam Polyethylene, 0.072 Inch Diameter
Pair: 2 Insulated Conductors Twisted Together in Common Axis
Pair Shield: Aluminum/Polyester Tape, Aluminum Side Facing Out, 25% Overlap

Component II – 22 AWG Shielded Pair
Conductor: 22 AWG 19/34 Tin Plated Copper, 0.030 Inch Diameter
Insulation: 0.020 Inches of XPbT, 0.070 Inch Diameter
Pair: 2 Insulated Conductors Twisted Together in Common Axis
Pair Shield: Aluminum/Polyester Tape, Aluminum Side Facing Out, 25% Overlap

Drain Wire
Drain Wire: 22 AWG 19/34 Tin Plated Copper, 0.030 Inch Diameter, Electrically Common with Pair Shields

Final Assembly
Core: 1 Component I (#1), 1 Component II (#2), and 1 Drain Wire Cabled Together In Common Axis with Fibrillated Polypropylene Fillers
Binder: Polypropylene Ribbon
Shield: 36 AWG Tin Plated Copper Braid, 65% Minimum Coverage
Jacket: 0.045 Inches of Flexible XPbT, Color – Apple Smoke Gray
Diameter: 0.300 ± 0.015 Inches
Print Legend (Black Ink): "HORNER CAN THIN (UL) E111018 TYPE CMG 75°C OR C(UL) TYPE CMG 75°C SHIELDED OR E57891 TYPE PLTC 75°C 1PR/24 AWG AND 1PR/22 AWG OR E47891 AWM STYLE 2464 CSA LL33523 AWM II A/B 80°C 300V FT4 RoHS COMPLIANT {Date Code}[1]"

[1] Date Code is a 4-digit code with the first two digits identifying the calendar week and the last two identifying the calendar year of manufacturing. Example – 0206 for cable manufactured in the second week of January 2006.

Color Code

Pair #	Conductor #1	Conductor #2
1	Blue	White
2	Red	Black

Electrical Characteristics

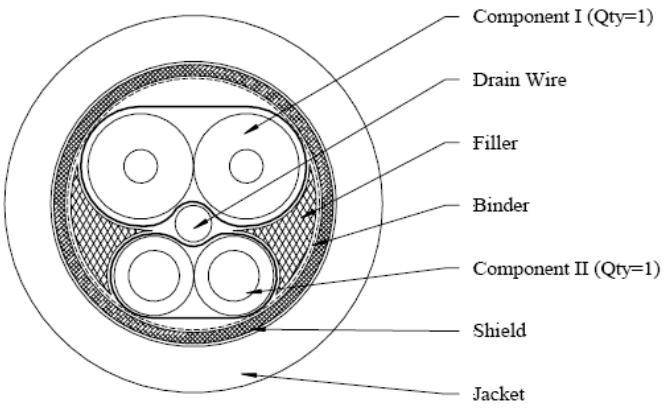
Component I – 24 AWG Shielded Pair
Differential Impedance: 120 ± 10% Ohms/ft @ 1 MHz
Mutual Capacitance: 12 pF/ft Nominal @ 1 MHz
Single-Ended Capacitance: 24 pF/ft Nominal @ 1 MHz
Capacitance Unbalance: 1200 pF/1000 ft Maximum @ 1 kHz
Time Delay: 1.36 ns/ft Nominal
Attenuation:
0.29 dB/100 ft Maximum @ 125 kHz
0.50 dB/100 ft Maximum @ 500 kHz
0.70 dB/100 ft Maximum @ 1 MHz
Conductor DC Resistance: 28 Ohms/1000 ft Maximum @ 20°C

Component II – 22 AWG Shielded Pair
Conductor DC Resistance: 17.5 Ohms/1000 ft Maximum @ 20°C

Safety Certification

UL Listing: Type CMG as specified in Article 800 of the National Electrical Code
UL Listing: Type PLTC as specified in Article 725 of the National Electrical Code
C(UL) Listing: Type CMG as specified in Article 800 of the National Electrical Code
UL Recognized: AWM Style 2464 80°C 300 Volts VW-1
CSA Certification: AWM II A/B 80°C 300 Volts FT4
RoHS Compliance: In Accordance to European Directive 2002/95/EC, Issue 13.2.2003

2 Specifications – Thick Cable (HE200CBL500) – 500m Maximum Distance



CONSTRUCTION

Component I – 18 AWG Pair
Conductor: 18 AWG 19/30 Tin Plated Copper, 0.048 Inch Diameter
Insulation: 0.0505 Inches of Foam Polyethylene, 0.149 Inch Diameter
Pair: 2 Insulated Conductors Twisted Together
Pair Shield: Aluminum/Polyester Tape, Aluminum Side Facing Out, 25% Overlap

Component II – 15 AWG Pair
Conductor: 15 AWG 19/.013" Tin Plated Copper, 0.062 Inch Diameter
Insulation: 0.021 Inches of XPbT, 0.104 Inch Diameter
Pair: 2 Insulated Conductors Twisted Together
Pair Shield: Aluminum/Polyester Tape, Aluminum Side Facing Out, 25% Overlap

Drain Wire
Drain Wire: 18 AWG 19/30 Tin Plated Copper, 0.048 Inch Diameter

Final Assembly
Core: 1 Component I (#1), 1 Component II (#2), and 1 Drain Wire Cabled Together in Common Axis with Fibrillated Polypropylene Fillers
Binder: Polypropylene Ribbon
Shield: 36 AWG Tin Plated Copper Braid, 65% Coverage
Jacket: 0.040 Inches of Pressure-Extruded Flexible XPbT, Color – Apple Smoke Gray
Diameter: 0.425 ± 0.015 Inches
Print Legend (Black Ink): "HORNER CAN THICK (UL) E111018 TYPE CMG 75°C OR C(UL) TYPE CMG 75°C SHIELDED OR E57891 TYPE PLTC 75°C 1PR/18 AWG AND 1PR/15 AWG OR E47891 AWM STYLE 2464 CSA LL33523 AWM II A/B 80°C 300V FT4 RoHS COMPLIANT {Date Code}[1]"

[1] Date Code is a 4-digit code with the first two digits identifying the calendar week and the last two identifying the calendar year of manufacturing. Example – 0206 for cable manufactured in the second week of January 2006.

COLOR CODE

Pair #	Comp	Conductor #1	Conductor #2
1	I	Blue	White
2	II	Red	Black

ELECTRICAL CHARACTERISTICS

Component I – 18 AWG Pair
Differential Impedance: 120 ± 10% Ohms @ 1 MHz
Mutual Capacitance: 12 pF/ft Nominal @ 1 MHz
Single-Ended Capacitance: 24 pF/ft Nominal @ 1 MHz
Capacitance Unbalance: 1200 pf/1000 ft Maximum @ 1 kHz
Time Delay: 1.36 ns/ft. Maximum
Attenuation: 0.13 dB/100 ft Maximum @ 125 kHz
0.25 dB/100 ft Maximum @ 500 kHz
0.36 dB/100 ft Maximum @ 1 MHz
Conductor DC Resistance: 6.9 Ohms/1000 ft Maximum @ 20°C

Component II – 15 AWG Pair
Conductor DC Resistance: 3.6 Ohms/1000 ft Maximum @ 20°C

SAFETY CERTIFICATION

UL Listing: Type CMG as specified in Article 800 of the National Electrical Code
UL Listing: Type PLTC as specified in Article 725 of the National Electrical Code
C(UL) Listing: Type CMG
UL Recognized: AWM Style 2464 80°C 300 Volts VW-1
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